BLM3120 - Information Retrieval And Web Search Engines Project Proposal

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Paper Title Recommendation System

Why?

We love reading papers, and we love arXiv. Paper titles are exiciting section of papers, some of them relevent with paper content, some of them are not (e.g Attention Is All You Need). Titles motivate people to read the papers, have a big role on accepted submission to conferences. Maybe it can help people write more creative titles, even our project's.

What?

We propose a title recommendation system. After crawling e-print papers on arXiv, we want to build a recommendation system for titles using abtract sections and paper's subject (e.g Natural Language Processing, Statistics, Computer Vision). This project can be seen as "Opinion Mining and Sentiment Anlaysis".

How?

We use arXiv as a source for paper dataset. arXiv is a open pre-print and e-print website for papers and free. Using paper dataset, title recommendation needs a simple language model. Language models are a subfield of Natural Language Processing. We want to choose a baseline model (e.g N-Grams/Naive Bayes - RNNs), then use state-of-the-art models (e.g Transformers, BERT etc.).

When?

Topic	Duration
Literature & Dataset Review	$\frac{1}{2} \times Months$
Code Implementation	1× Months
Paper/Report	$\frac{1}{2} \times Months$
Bonus:	Demo Website for Title Recommendation